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Abstract of the Disclosure

Apparatus for illuminating the fundus of an eye with a scanned sample beam of radiation, the scanned sample beam emerging from a beam scanner which is exposed to a sample beam, which apparatus is for use in optical coherence tomography. An embodiment of the apparatus includes: (a) 5 scanner lens and a beamsplitter for transferring radiation from the scanned sample beam, including chief rays of the sample beam which emerge from a point of final deflection of the beam scanner, and (b) ^a _{lens} ^{for} focusing the transferred 10 radiation so that the scanned sample beam is focused onto the fundus by the eye. In accordance with the invention the scanner lens is fixed with respect to the beam scanner so that the point of final deflection is located substantially 15 in the back focal plane of the scanner lens and the scanner lens is movable.